

**IMPROVED VACCINES FOR PROLIFERATIVE
ILEITIS AND METHODS OF MAKING AND USING THE SAME**

ABSTRACT OF THE DISCLOSURE

A proliferative ileitis vaccine comprising tissue culture grown *Lawsonia intracellularis* and methods of making said vaccines. Proliferative ileitis vaccines described include those containing whole *L. intracellularis*, extracts of *L. intracellularis*, protective immunogenic subunits of *L. intracellularis*, recombinant immunogens of *L. intracellularis* and naked DNA of *L. intracellularis*. The vaccines of this invention may be inactivated or modified live and contain adjuvants and/or stabilizers. The vaccines of this invention may be in a liquid or lyophilized form. Also disclosed are monoclonal antibodies which neutralize the growth of *L. intracellularis* and which may be used for diagnosing proliferative ileitis as well as for quantitating antigen during vaccine production.